

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
 Data File : VD063771.D
 Acq On : 23 Aug 2019 17:28
 Operator : JC/SY
 Sample : K4491-03RE
 Misc : 5.47g/5ml/MSVOA D/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

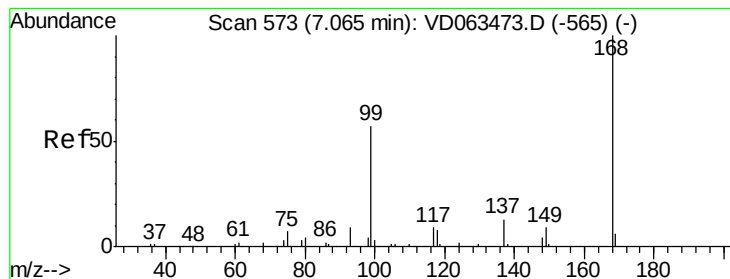
Quant Time: Aug 26 11:13:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	976254	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	1376958	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	895174	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	314287	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	676697	64.85	ug/l	-0.02
Spiked Amount			Recovery	=	129.70%	
35) Dibromofluoromethane	6.93	113	789167	68.05	ug/l	0.00
Spiked Amount			Recovery	=	136.10%	
50) Toluene-d8	10.41	98	1526678	59.88	ug/l	0.00
Spiked Amount			Recovery	=	119.76%	
62) 4-Bromofluorobenzene	13.55	95	451205	39.05	ug/l	0.00
Spiked Amount			Recovery	=	78.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	5707	2.250	ug/l	70
11) Tert butyl alcohol	4.08	59	5468	12.037	ug/l #	71
16) Acetone	3.22	43	180649	85.159	ug/l	94
18) Methyl Acetate	3.64	43	7665	1.908	ug/l	98
20) Methylene Chloride	3.82	84	82281	8.970	ug/l #	77
25) 2-Butanone	6.10	43	4433	2.116	ug/l #	58
27) cis-1,2-Dichloroethene	6.04	96	182818	20.129	ug/l	95
29) Tetrahydrofuran	6.45	42	7514	7.697	ug/l #	89
31) Cyclohexane	7.04	56	20488	2.174	ug/l #	40
36) 1,1-Dichloropropene	7.05	75	72246	5.935	ug/l #	49
38) Carbon Tetrachloride	7.05	117	88988	4.851	ug/l #	17
44) Trichloroethene	8.54	130	93644	9.146	ug/l	97
51) 4-Methyl-2-Pentanone	10.40	43	9396	2.010	ug/l #	1
64) Tetrachloroethene	11.26	164	129437	18.730	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.55	75	207632	214.173	ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063771.D

Acq: 23 Aug 2019 17:28

Instrument :

MSVOA_D

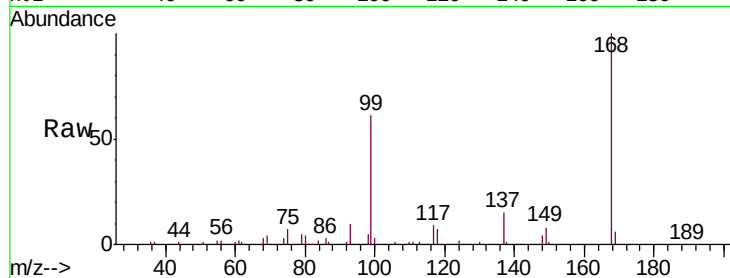
ClientSampleId :

Tot Ion:168 Resp: 976254

Ion Ratio Lower Upper

168 100

99 60.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

400000

300000

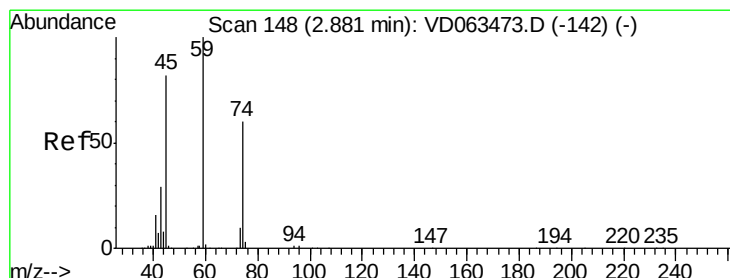
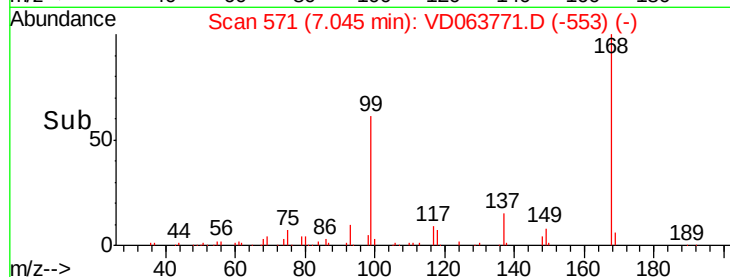
200000

100000

0

Time-->

6.90 7.00 7.10 7.20 7.30



#8

Diethyl Ether

Concen: 2.250 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD063771.D

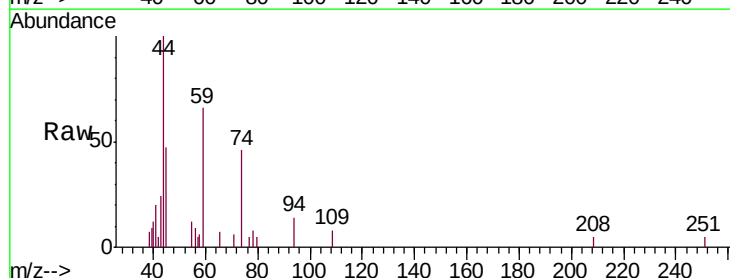
Acq: 23 Aug 2019 17:28

Tgt Ion: 74 Resp: 5707

Ion Ratio Lower Upper

74 100

45 101.3 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

5000

4000

3000

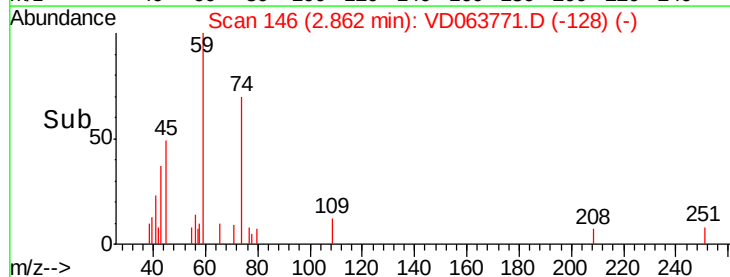
2000

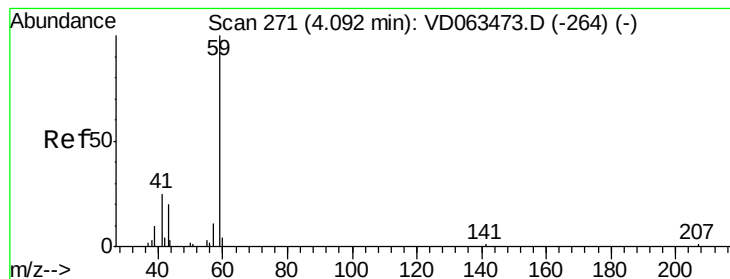
1000

0

Time-->

2.80 2.85 2.90 2.95





#11

Tert butyl alcohol

Concen: 12.037 ug/l

RT: 4.08 min Scan# 270

Delta R.T. -0.01 min

Lab File: VD063771.D

Acq: 23 Aug 2019 17:28

Instrument :

MSVOA_D

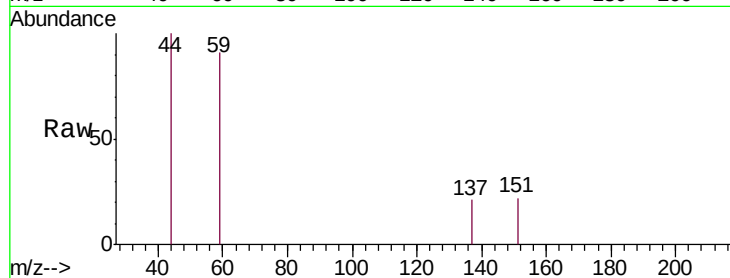
ClientSampleId :

Tot Ion: 59 Resp: 5468

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

1500

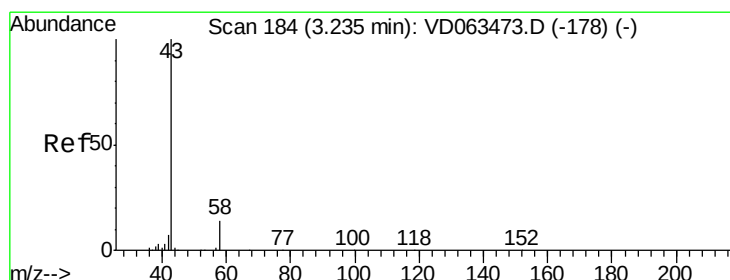
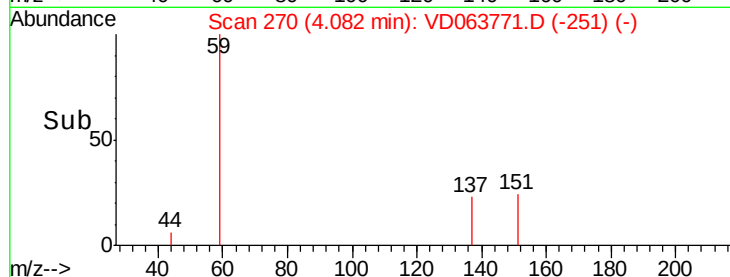
1000

500

0

4.00 4.10 4.20

Time-->



#16

Acetone

Concen: 85.159 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063771.D

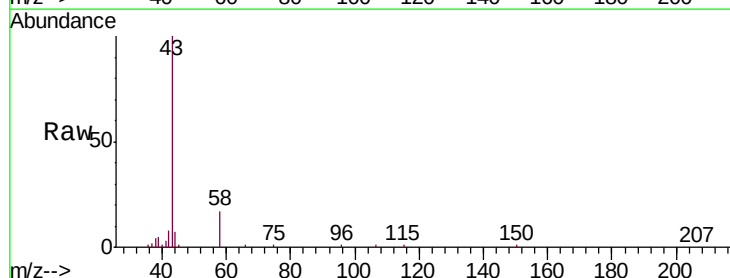
Acq: 23 Aug 2019 17:28

Tgt Ion: 43 Resp: 180649

Ion Ratio Lower Upper

43 100

58 17.0 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

60000

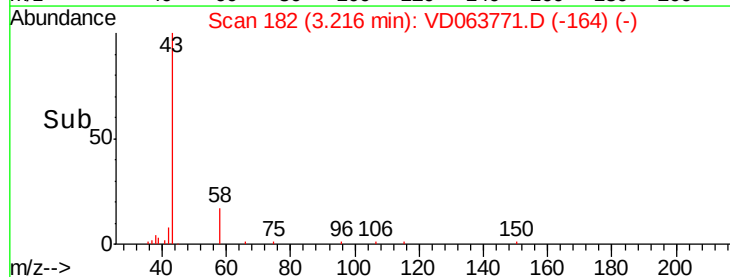
40000

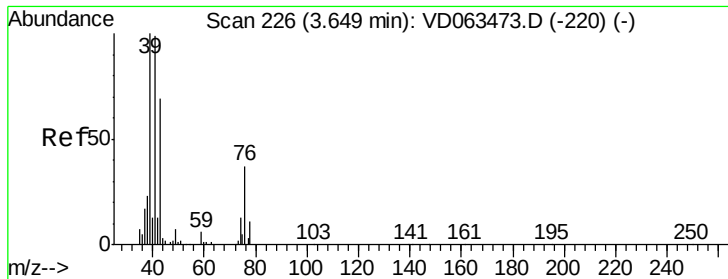
20000

0

3.10 3.20 3.30 3.40

Time-->

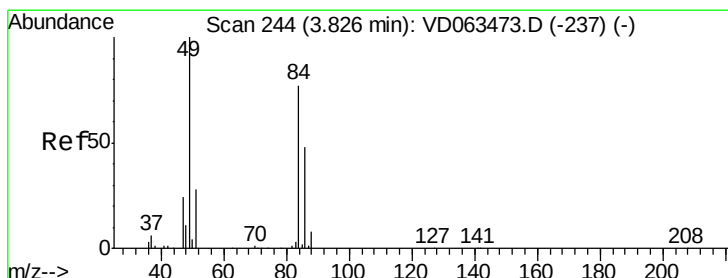
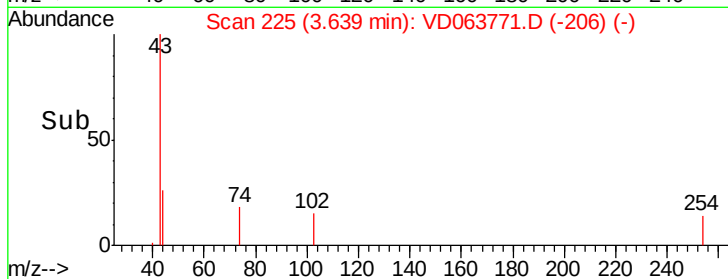
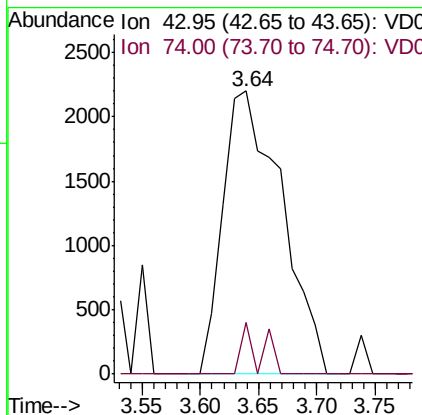
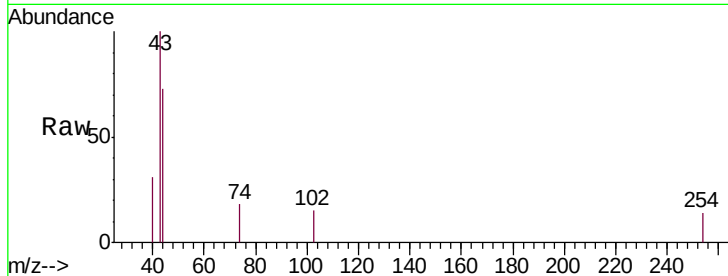




#18
Methvl Acetate
Concen: 1.908 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.01 min
Lab File: VD063771.D
Acq: 23 Aug 2019 17:28

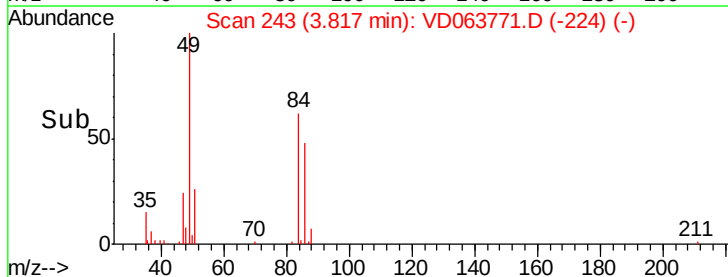
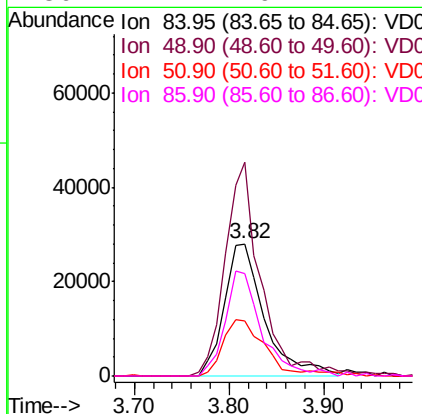
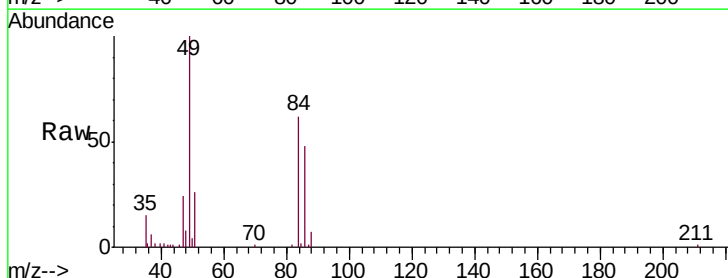
Instrument :
MSVOA_D
ClientSampleId :

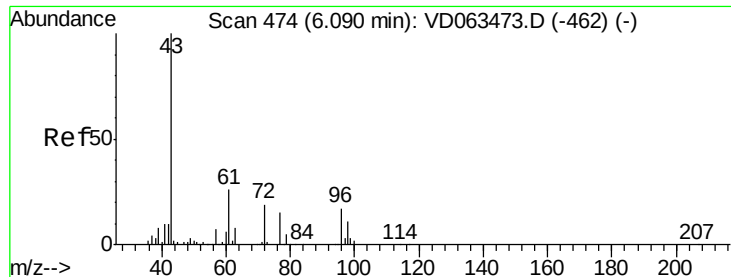
Tot Ion: 43 Resp: 7665
Ion Ratio Lower Upper
43 100
74 18.3 15.4 23.2



#20
Methylene Chloride
Concen: 8.970 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063771.D
Acq: 23 Aug 2019 17:28

Tgt Ion: 84 Resp: 82281
Ion Ratio Lower Upper
84 100
49 161.2 103.4 155.2#
51 41.6 28.5 42.7
86 77.7 49.4 74.2#

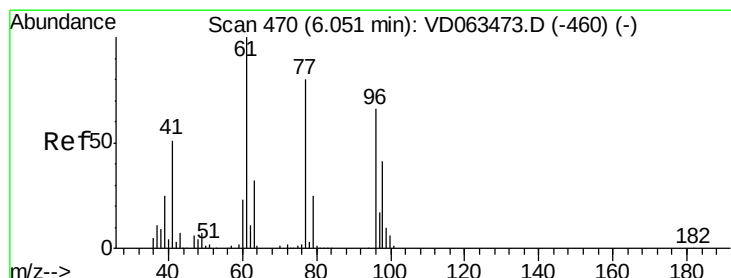
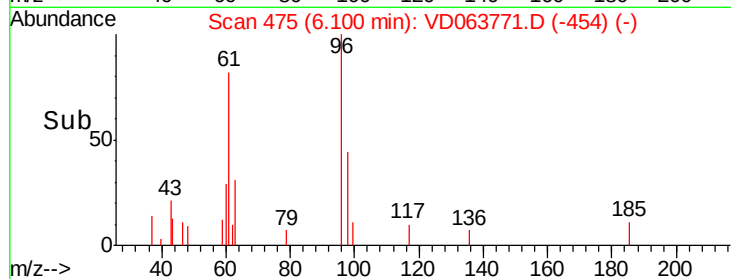
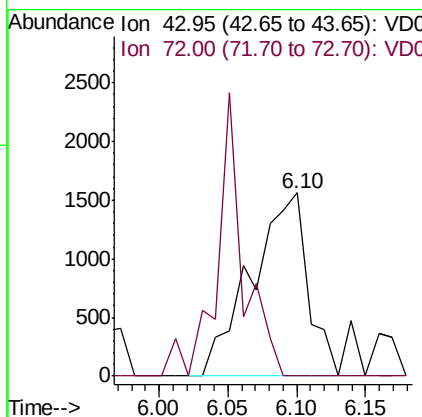
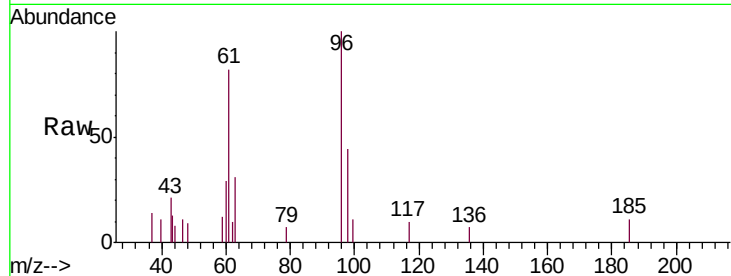




#25
2-Butanone
Concen: 2.116 ug/l
RT: 6.10 min Scan# 475
Delta R.T. 0.01 min
Lab File: VD063771.D
Acq: 23 Aug 2019 17:28

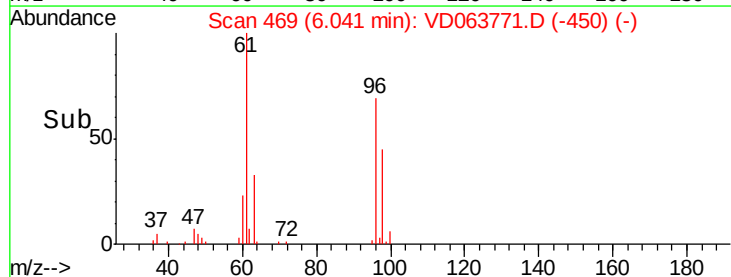
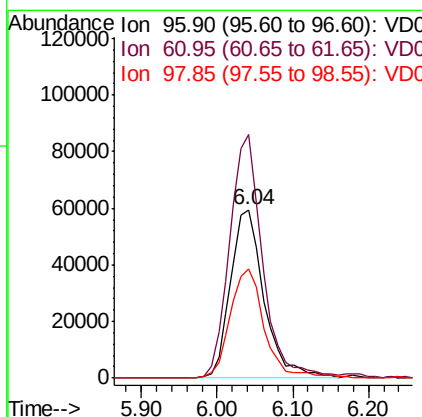
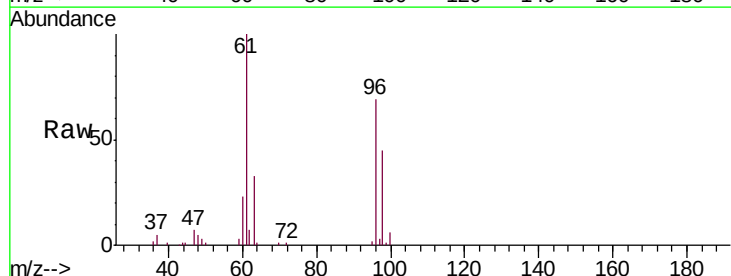
Instrument :
MSVOA_D
ClientSampled :

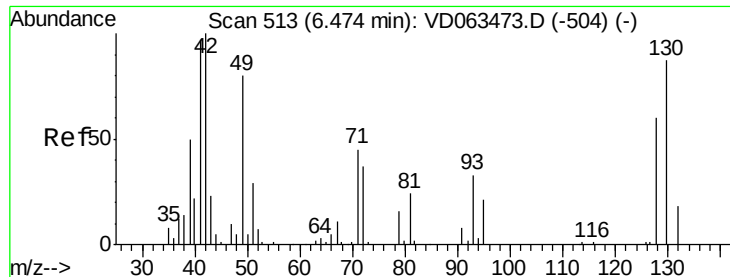
Tot Ion: 43 Resp: 4433
Ion Ratio Lower Upper
43 100
72 0.0 15.1 22.7#



#27
cis-1,2-Dichloroethene
Concen: 20.129 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.01 min
Lab File: VD063771.D
Acq: 23 Aug 2019 17:28

Tgt Ion: 96 Resp: 182818
Ion Ratio Lower Upper
96 100
61 144.5 0.0 304.0
98 65.1 0.0 124.8





#29

Tetrahydrofuran

Concen: 7.697 ug/l

RT: 6.45 min Scan# 511

Delta R.T. -0.02 min

Lab File: VD063771.D

Acq: 23 Aug 2019 17:28

Instrument :

MSVOA_D

ClientSampleId :

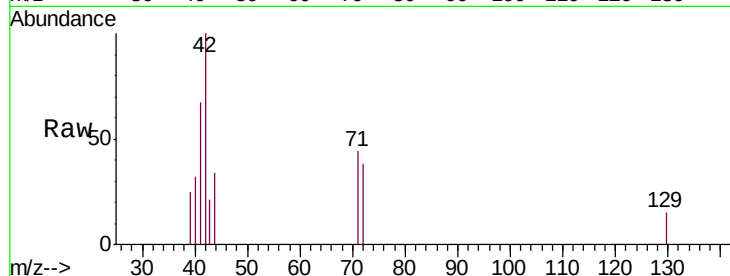
Tot Ion: 42 Resp: 7514

Ion Ratio Lower Upper

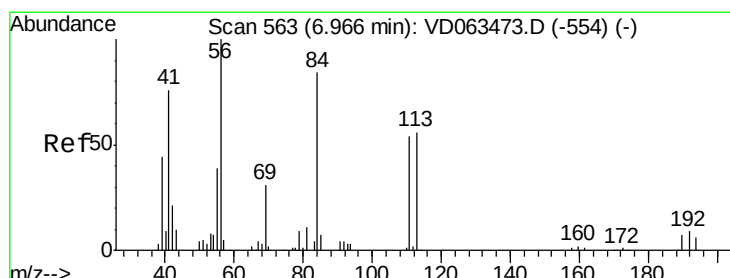
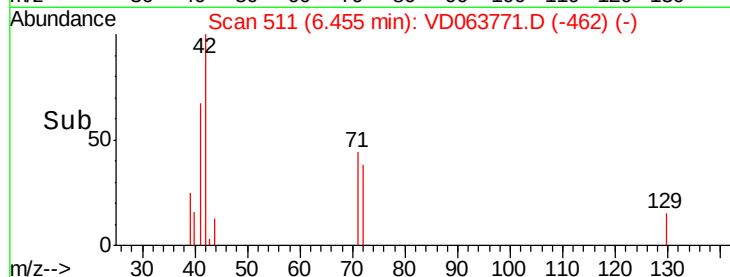
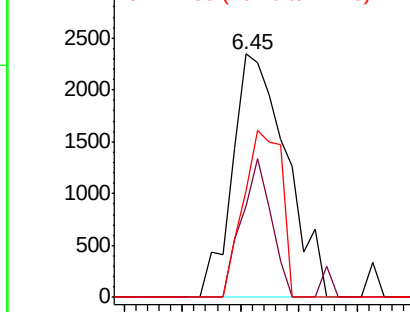
42 100

72 31.4 31.5 47.3#

71 48.5 33.8 50.8



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 2.174 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.07 min

Lab File: VD063771.D

Acq: 23 Aug 2019 17:28

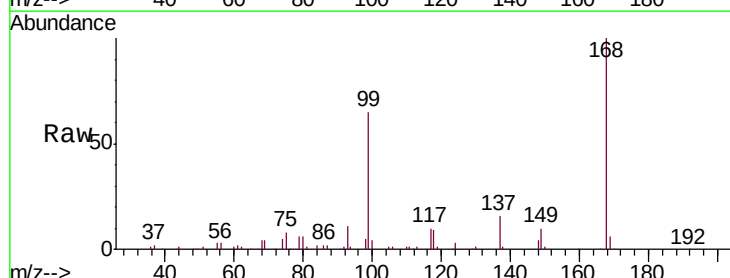
Tgt Ion: 56 Resp: 20488

Ion Ratio Lower Upper

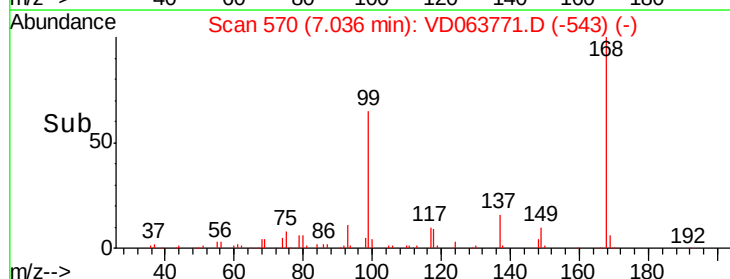
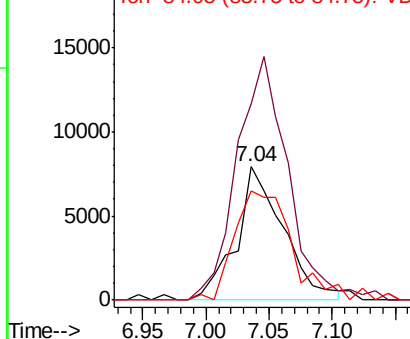
56 100

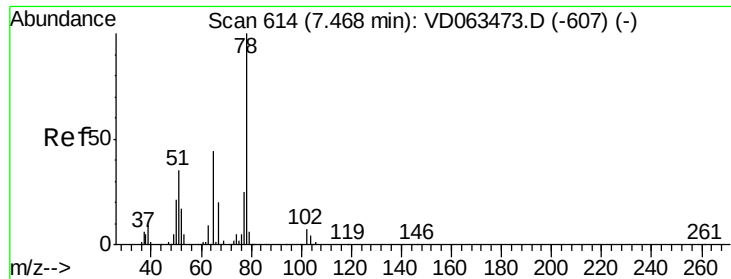
69 147.2 25.0 37.6#

84 81.8 69.7 104.5



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

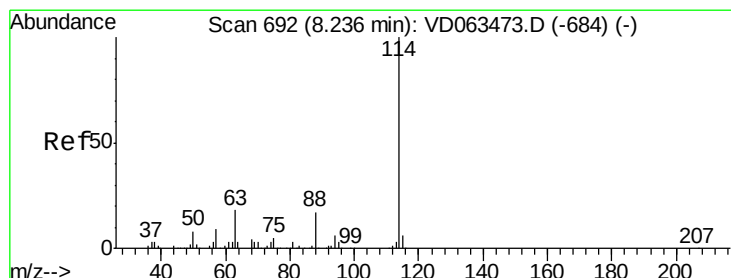
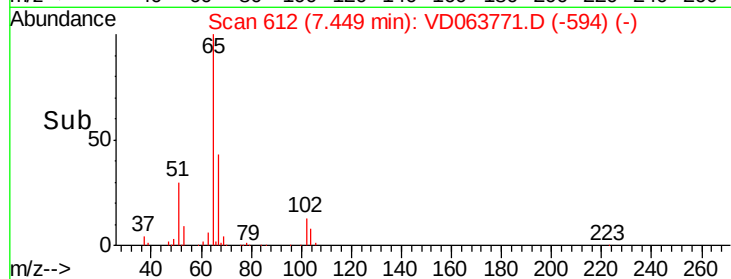
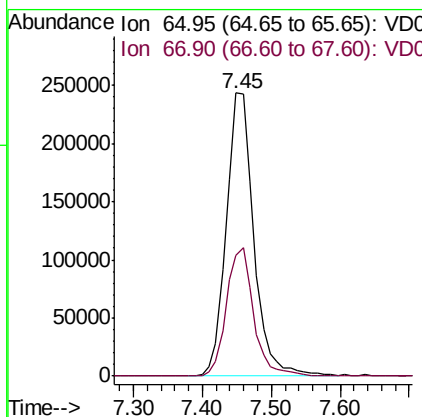
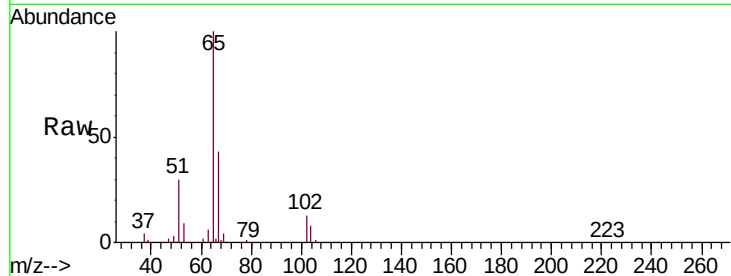




#33
 1,2-Dichloroethane-d4
 Concen: 64.846 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. -0.02 min
 Lab File: VD063771.D
 Acq: 23 Aug 2019 17:28

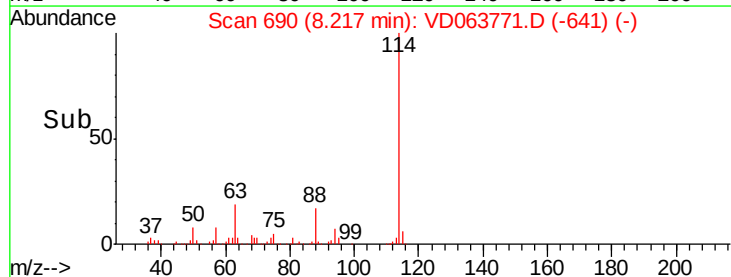
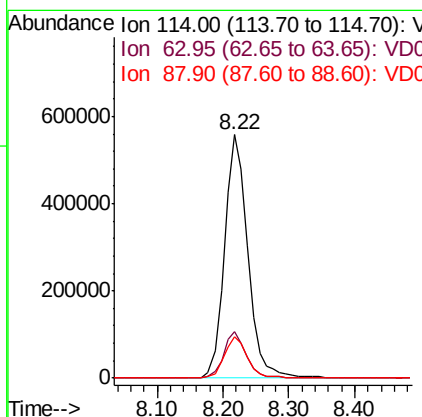
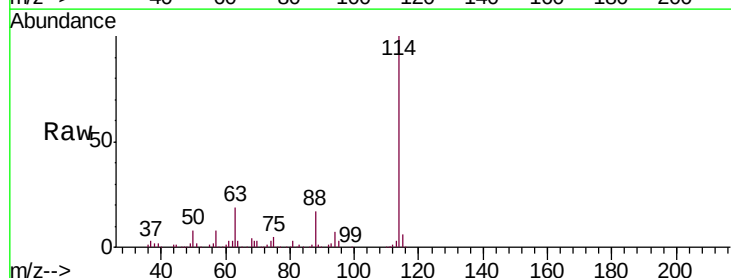
Instrument :
 MSVOA_D
 ClientSampled :

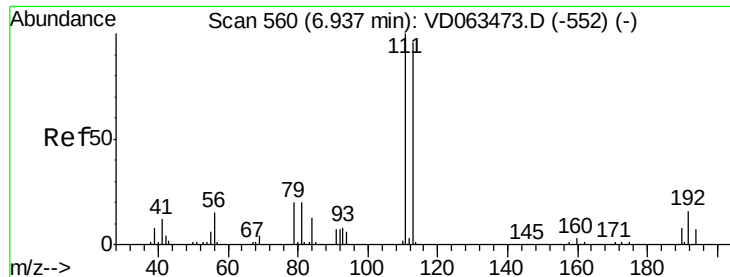
Tot Ion: 65 Resp: 676697
 Ion Ratio Lower Upper
 65 100
 67 42.8 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.02 min
 Lab File: VD063771.D
 Acq: 23 Aug 2019 17:28

Tgt Ion: 114 Resp: 1376958
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 36.2
 88 16.8 0.0 35.0

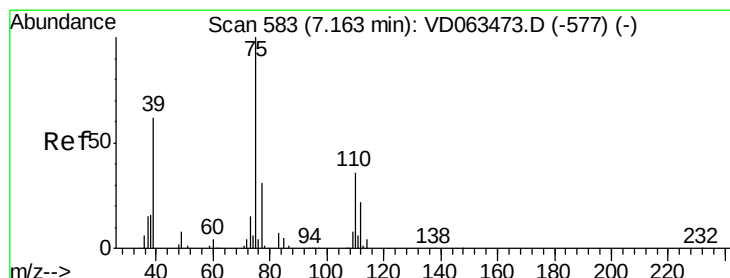
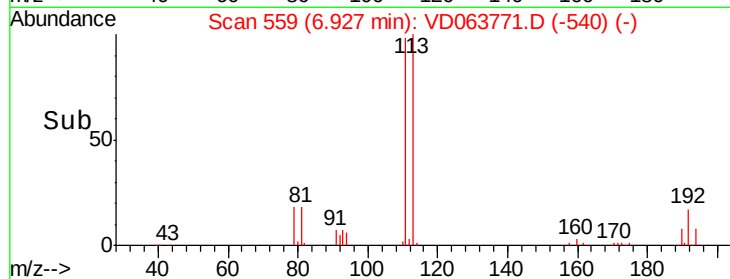
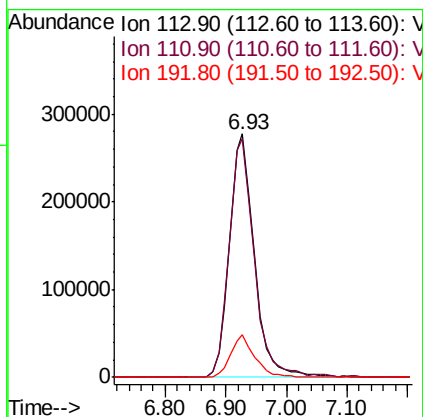
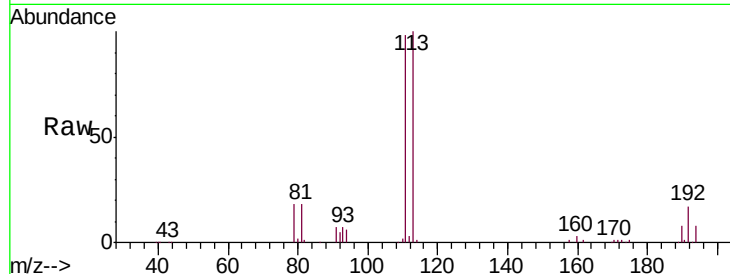




#35
 Dibromofluoromethane
 Concen: 68.050 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD063771.D
 Acq: 23 Aug 2019 17:28

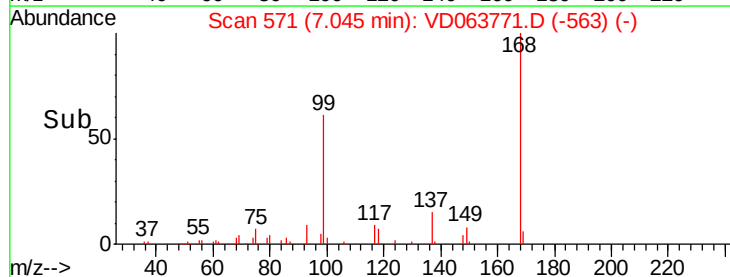
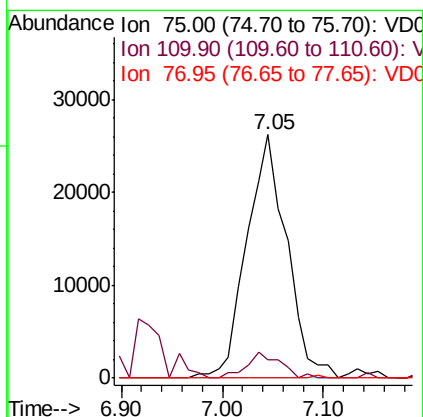
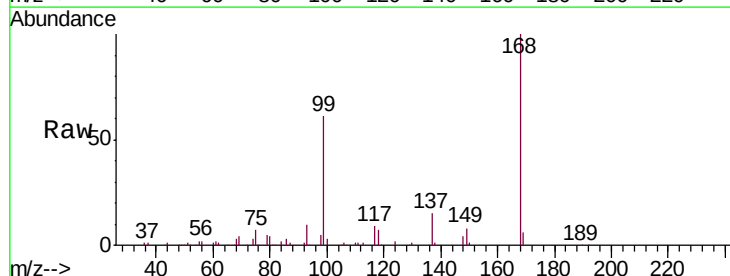
Instrument :
 MSVOA_D
 ClientSampled :

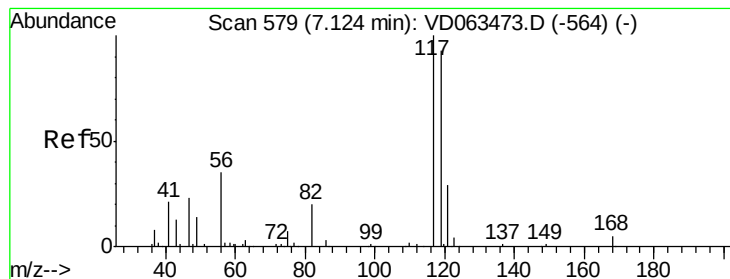
Tot Ion	Ratio	Lower	Upper
113	100		
111	98.1	83.1	124.7
192	17.5	13.1	19.7



#36
 1,1-Dichloropropene
 Concen: 5.935 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.12 min
 Lab File: VD063771.D
 Acq: 23 Aug 2019 17:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	17.6	52.8#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 4.851 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063771.D

Acq: 23 Aug 2019 17:28

Instrument :

MSVOA_D

ClientSampleId :

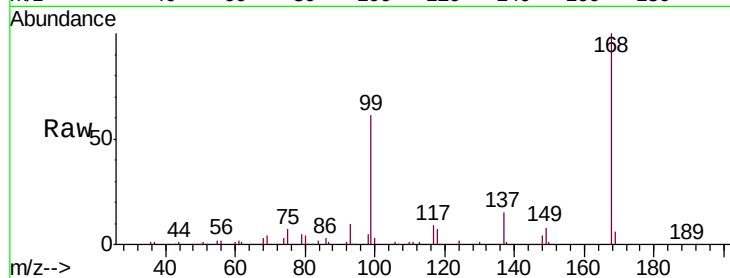
Tot Ion:117 Resp: 88988

Ion Ratio Lower Upper

117 100

119 4.3 74.2 111.2#

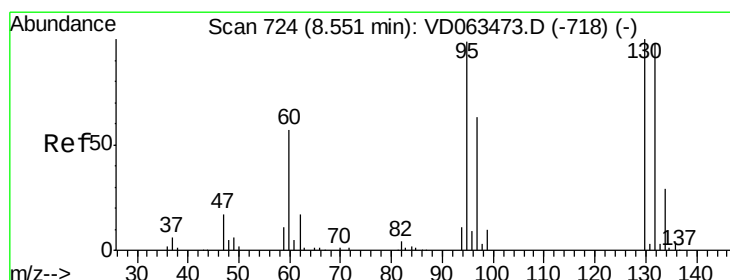
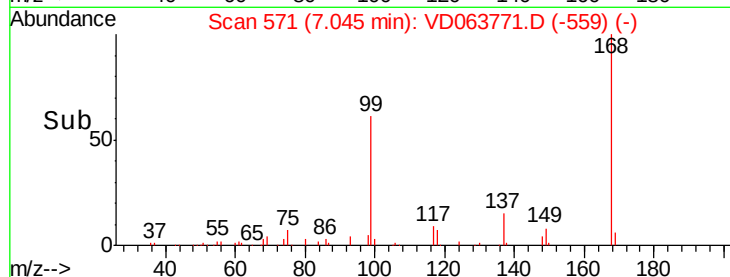
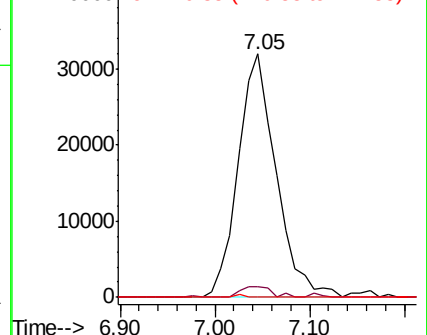
121 0.0 23.1 34.7#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#44

Trichloroethene

Concen: 9.146 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD063771.D

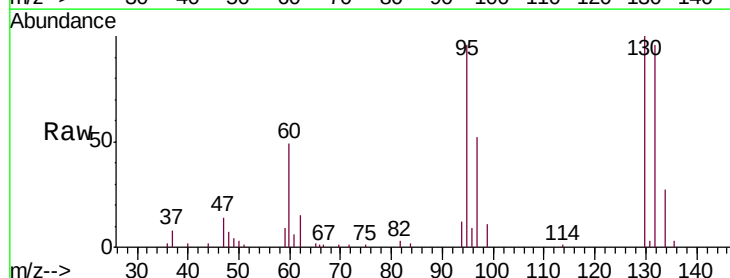
Acq: 23 Aug 2019 17:28

Tgt Ion:130 Resp: 93644

Ion Ratio Lower Upper

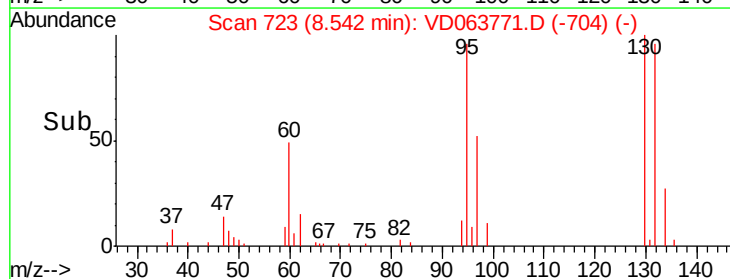
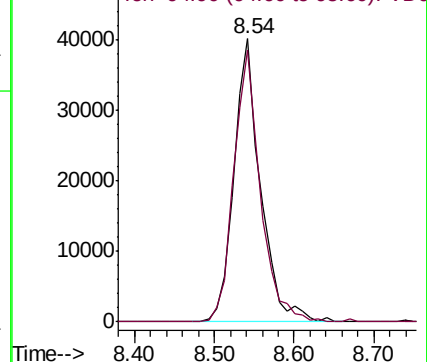
130 100

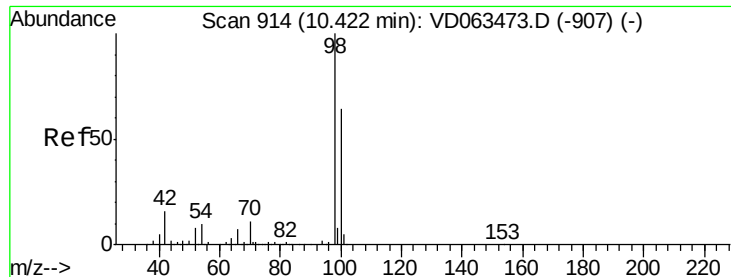
95 96.1 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

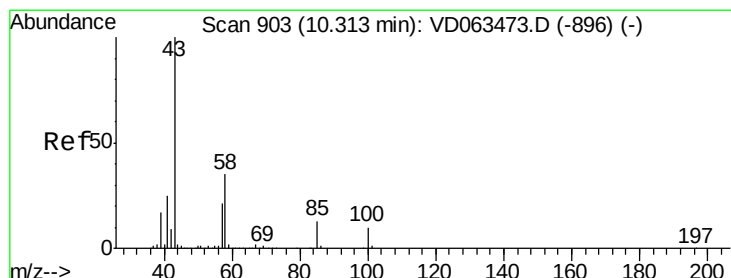
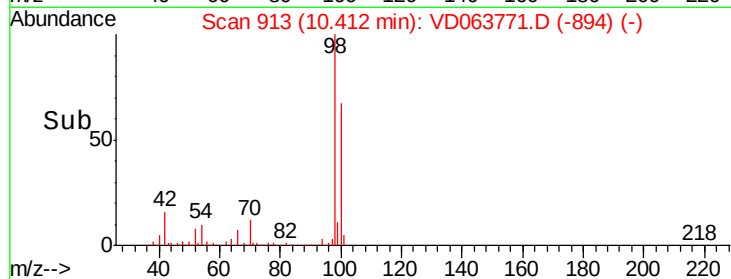
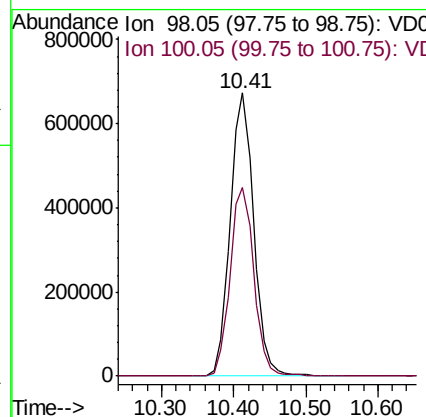
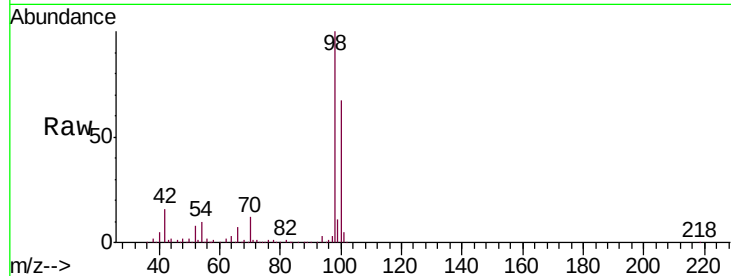




#50
Toluene-d8
Concen: 59.879 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD063771.D
Acq: 23 Aug 2019 17:28

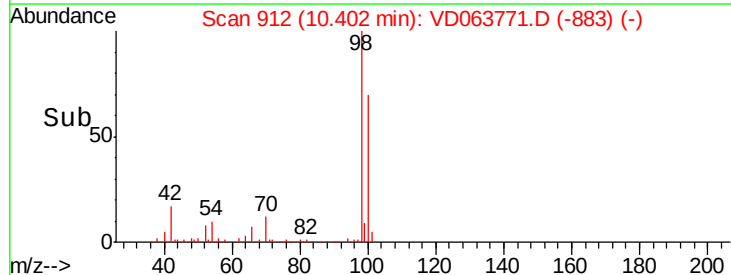
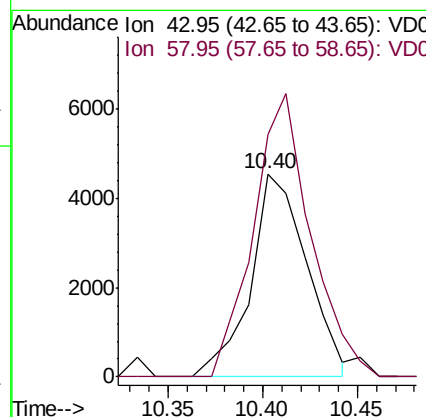
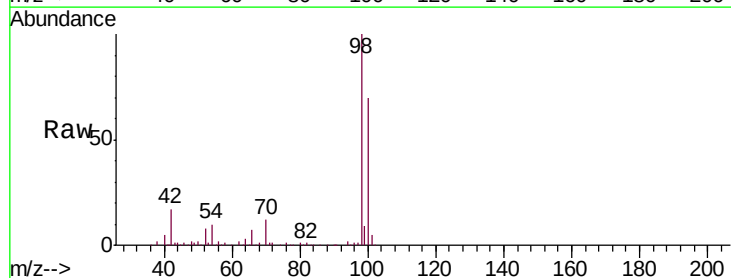
Instrument :
MSVOA_D
ClientSampleId :

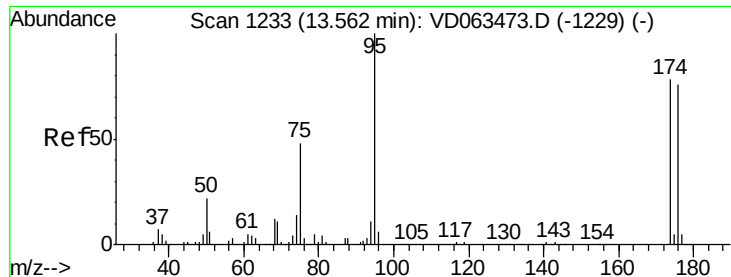
Tot Ion: 98 Resp: 1526678
Ion Ratio Lower Upper
98 100
100 66.5 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 2.010 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.09 min
Lab File: VD063771.D
Acq: 23 Aug 2019 17:28

Tgt Ion: 43 Resp: 9396
Ion Ratio Lower Upper
43 100
58 119.1 28.0 42.0#





#62

4-Bromofluorobenzene

Concen: 39.045 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063771.D

Acq: 23 Aug 2019 17:28

Instrument :

MSVOA_D

ClientSampled :

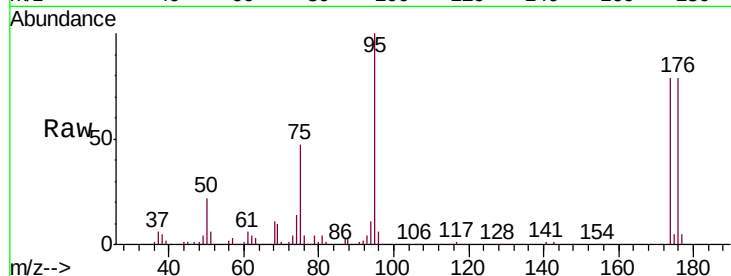
Tot Ion: 95 Resp: 451205

Ion Ratio Lower Upper

95 100

174 79.5 0.0 155.4

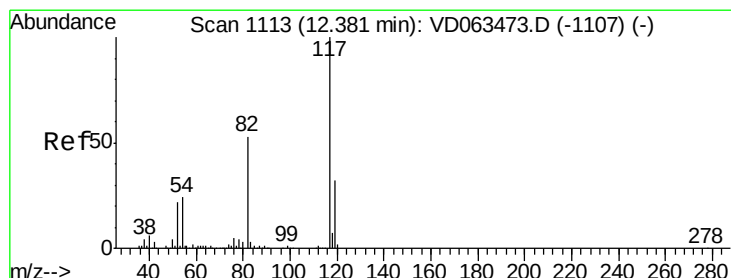
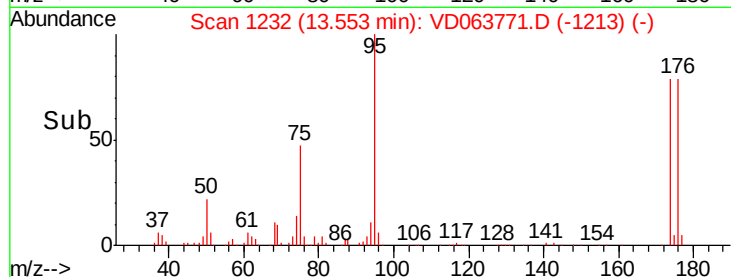
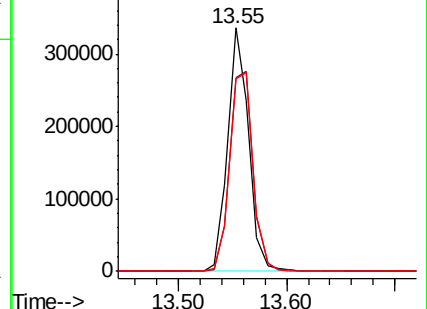
176 79.1 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VD063771.D

Acq: 23 Aug 2019 17:28

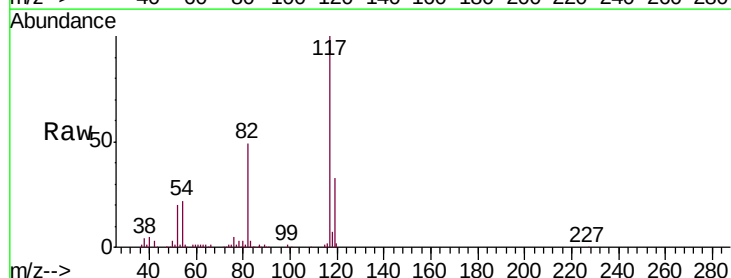
Tgt Ion: 117 Resp: 895174

Ion Ratio Lower Upper

117 100

82 49.0 42.0 63.0

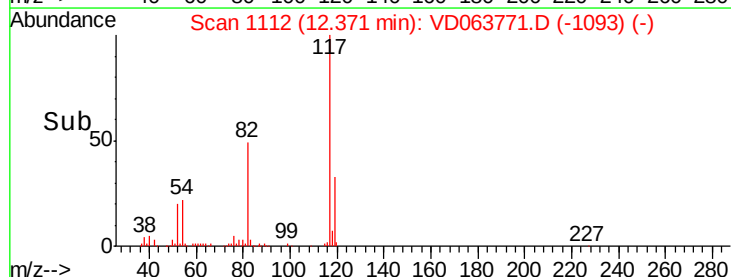
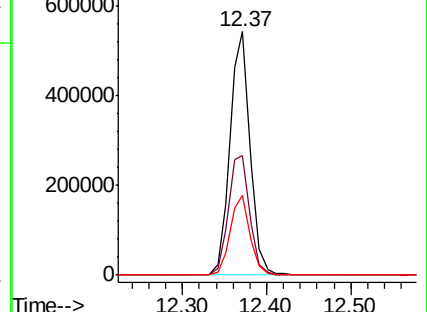
119 33.0 25.4 38.0

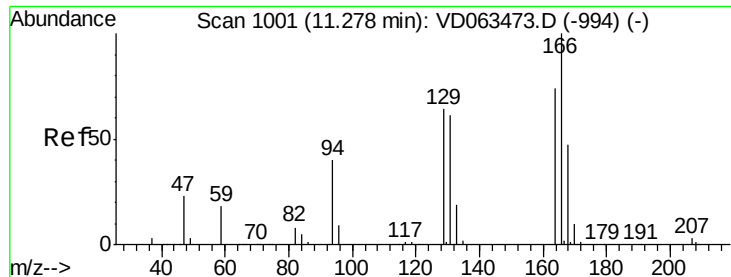


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

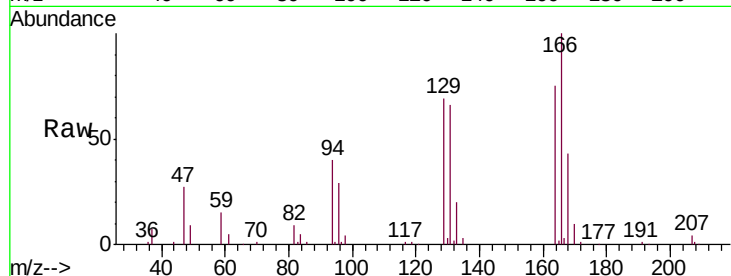




#64
Tetrachloroethene
Concen: 18.730 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.02 min
Lab File: VD063771.D
Acq: 23 Aug 2019 17:28

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
166	132.5	108.6	163.0
129	91.0	69.0	103.6
131	87.3	66.6	99.8



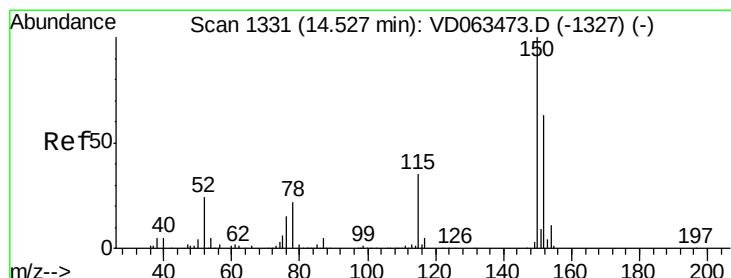
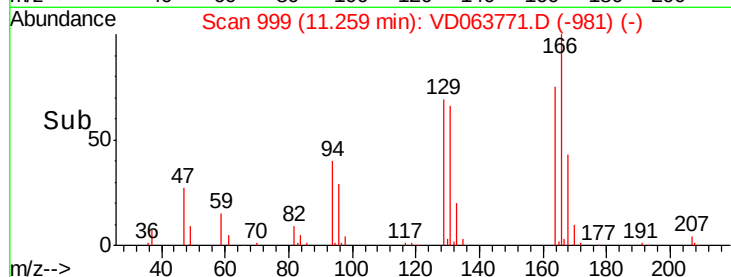
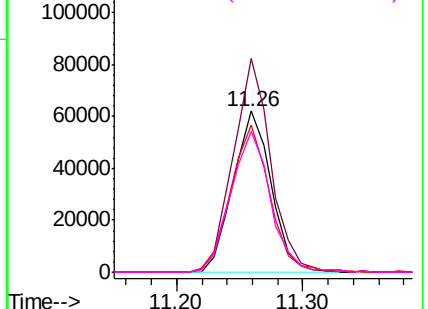
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

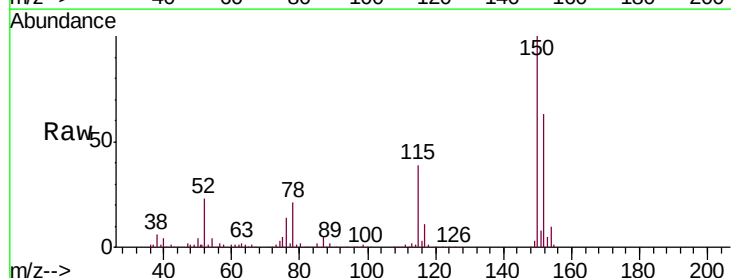
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063771.D
Acq: 23 Aug 2019 17:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.7	30.9	92.7
150	157.7	0.0	318.6

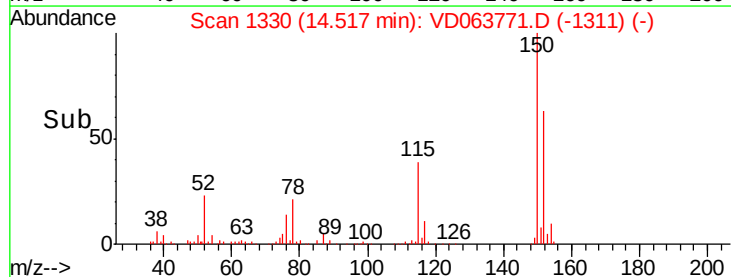
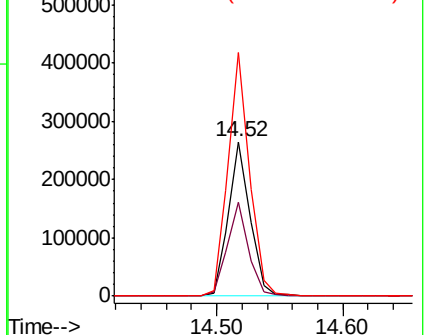


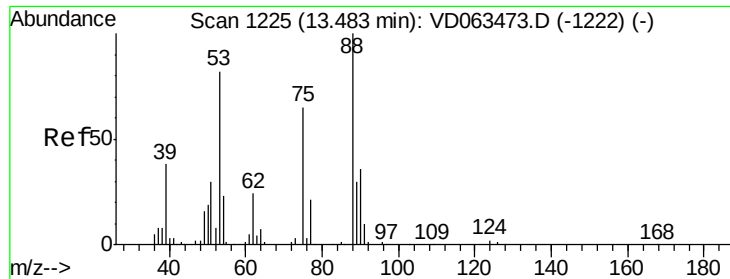
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 214.173 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063771.D

Acq: 23 Aug 2019 17:28

Instrument :

MSVOA_D

ClientSampleId :

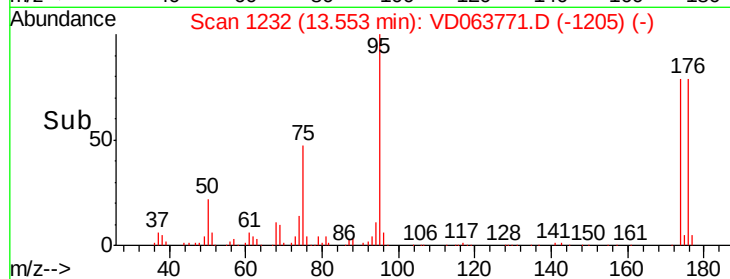
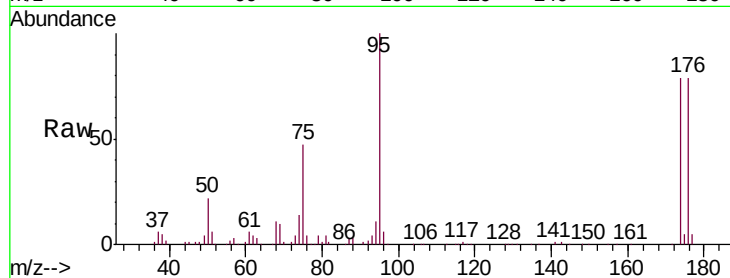
Tot Ion: 75 Resp: 207632

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

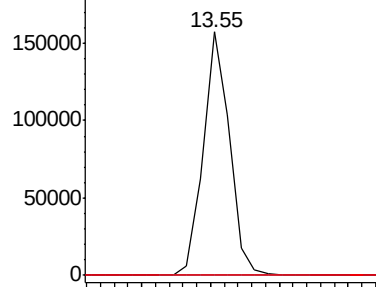
89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



Time-->